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<input type="checkbox"/>	L2	L1 and modified polyketide synthase	5
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☐ 1. Document ID: US 20040087003 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 5

File: PGPB

May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040087003

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040087003 A1

TITLE: Methods and cells for improved production of polyketides

PUBLICATION-DATE: May 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hu, Zhihao	Castro Valley	CA	US	
Hutchinson, C. Richard	San Mateo	CA	US	

US-CL-CURRENT: [435/252.33](#); [435/252.3](#), [435/75](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw D
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☐ 2. Document ID: US 20040077058 A1

L2: Entry 2 of 5

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040077058

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040077058 A1

TITLE: Recombinant polynucleotides encoding pro-geldanamycin producing polyketide synthase and accessory proteins, and uses thereof

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hutchinson, Richard C.	San Mateo	CA	US	
Reid, Ralph C.	San Rafael	CA	US	
Hu, Zhihao	Castro Valley	CA	US	
Rascher, Andreas	San Francisco	CA	US	
Schirmer, Andreas	Hayward	CA	US	

McDaniel, Robert Palo Alto CA US

US-CL-CURRENT: 435/119; 435/252.3, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 3. Document ID: US 20030096374 A1

L2: Entry 3 of 5

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096374

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030096374 A1

TITLE: Synthesis of oligoketides

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ashley, Gary	Alameda	CA	US	
Chan-Kai, Isaac C.	Hayward	CA	US	
Burlingame, Mark A.	San Francisco	CA	US	

US-CL-CURRENT: 435/74; 536/7.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 4. Document ID: US 20030092140 A1

L2: Entry 4 of 5

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092140

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030092140 A1

TITLE: Novel polyketides and antibiotics

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ashley, Gary	Alameda	CA	US	
Chan-Kai, Isaac C.	Hayward	CA	US	
Burlingame, Mark A.	San Francisco	CA	US	

US-CL-CURRENT: 435/130; 435/117, 435/124

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 5. Document ID: US 6492562 B1

L2: Entry 5 of 5

File: USPT

Dec 10, 2002

US-PAT-NO: 6492562

DOCUMENT-IDENTIFIER: US 6492562 B1

TITLE: Racemic thioesters for production of polyketides

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashley; Gary	Alameda	CA		
Chan-Kai; Isaac C.	Hayward	CA		
Burlingame; Mark A.	San Francisco	CA		

US-CL-CURRENT: 568/75; 424/70.51

ABSTRACT:

Facile methods for preparing diketide and triketide thioesters are disclosed. The resulting thioesters may be used as intermediates in the synthesis of desired polyketides, and may contain functional groups which ultimately reside in side chains on the resulting polyketide and thus can be used further to manipulate the polyketide so as to form derivatives. The polyketides produced may also be tailored by glycosylation, hydroxylation and the like. New polyketides and their derivatives and tailored forms are thereby produced.

17 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw. D.
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L1 and modified polyketide synthase

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☐ 1. Document ID: US 20040018598 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 11

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040018598

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040018598 A1

TITLE: Bio-intermediates for use in the chemical synthesis of polyketides

PUBLICATION-DATE: January 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Santi, Daniel	San Francisco	CA	US	
Ashley, Gary	Alameda	CA	US	
Myles, David C.	Kensington	CA	US	

US-CL-CURRENT: 435/75; 435/118, 548/180

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 2. Document ID: US 20040014183 A1

L4: Entry 2 of 11

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040014183

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040014183 A1

TITLE: Secondary metabolite congener distribution modulation

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Licari, Peter J.	Fremont	CA	US	
Julien, Bryan	Oakland	CA	US	
Frykman, Scott	Hayward	CA	US	
Tsuruta, Hiroko	Emeryville	CA	US	

US-CL-CURRENT: 435/118; 435/252.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20030176473 A1

L4: Entry 3 of 11

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030176473

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030176473 A1

TITLE: Derivatives of epothilone B and D and synthesis thereof

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Taylor, Richard E.	South Bend	IN	US	
Chen, Yue	Mishawaka	IN	US	

US-CL-CURRENT: 514/365; 548/181, 548/204

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 20030114450 A1

L4: Entry 4 of 11

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030114450

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030114450 A1

TITLE: Benzoquinone ansamycins

PUBLICATION-DATE: June 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Santi, Daniel	San Francisco	CA	US	
Myles, David C.	Kensington	CA	US	
Tian, Zong-Qiang	Fremont	CA	US	
Hutchinson, C. Richard	San Mateo	CA	US	
Johnson, Robert	Lafayette	CA	US	
Zhou, Yi-Qing	Lafayette	CA	US	
Feng, Li	Fremont	CA	US	

US-CL-CURRENT: 514/234.5; 514/252.13, 514/320, 514/337, 514/397, 540/456

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20030096381 A1

L4: Entry 5 of 11

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096381

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030096381 A1

TITLE: Production of polyketides

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Julien, Bryan	Oakland	CA	US	
Katz, Leonard	Hayward	CA	US	
Khosla, Chaitan	Palo Alto	CA	US	

US-CL-CURRENT: 435/118; 435/193, 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 20030073205 A1

L4: Entry 6 of 11

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030073205

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030073205 A1

TITLE: Production of polyketides

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Arslanian, Robert L.	Pacifica	CA	US	
Ashley, Gary	Alameda	CA	US	
Frykman, Scott	Hayward	CA	US	
Julien, Bryan	Oakland	CA	US	
Katz, Leonard	Oakland	CA	US	
Khosla, Chaitan	Palo Alto	CA	US	
Lau, Janice	San Mateo	CA	US	
Licari, Peter J.	Fremont	CA	US	
Regentin, Rika	Hayward	CA	US	
Santi, Daniel	San Francisco	CA	US	
Tang, Li	Foster City	CA	US	

US-CL-CURRENT: 435/117; 435/123, 435/252.3, 544/333, 546/148, 546/167, 546/281.7,
548/204

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 7. Document ID: US 20020137152 A1

L4: Entry 7 of 11

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137152
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020137152 A1

TITLE: Fermentation process for epothilones

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Santi, Daniel	San Francisco	CA	US	
Metcalfe, Brian	Moraga	CA	US	
Ashley, Gary	Alameda	CA	US	

US-CL-CURRENT: 435/118; 435/184, 435/252.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 8. Document ID: US 20020052028 A1

L4: Entry 8 of 11

File: PGPB

May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020052028
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020052028 A1

TITLE: Bio-intermediates for use in the chemical synthesis of polyketides

PUBLICATION-DATE: May 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Santi, Daniel	San Francisco	CA	US	
Ashley, Gary	Alameda	CA	US	
Myles, David C.	Kensington	CA	US	

US-CL-CURRENT: 435/76; 435/118

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 9. Document ID: US 6583290 B1

L4: Entry 9 of 11

File: USPT

Jun 24, 2003

US-PAT-NO: 6583290

DOCUMENT-IDENTIFIER: US 6583290 B1

TITLE: 14-methyl epothilone derivatives

DATE-ISSUED: June 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Julien; Bryan	Oakland	CA		
Katz; Leonard	Hayward	CA		
Khosla; Chaitan	Palo Alto	CA		
Tang; Li	Foster City	CA		
Ziermann; Rainer	San Mateo	CA		

US-CL-CURRENT: 548/203; 181/205, 546/268.1

ABSTRACT:

Compounds of the invention include 14-mehtyl epothilone derivatives. More generally, preferred compounds of the invention are those that can be produced by altering the epothilone PKS genes as described herein and optionally by action of epothilone modification enzymes and/or by chemically modifying the resulting epothilones produces when those genes are expressed.

2 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. De
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☐ 10. Document ID: US 6410301 B1

L4: Entry 10 of 11

File: USPT

Jun 25, 2002

US-PAT-NO: 6410301

DOCUMENT-IDENTIFIER: US 6410301 B1

TITLE: Myxococcus host cells for the production of epothilones

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Julien; Bryan	Oakland	CA		
Katz; Leonard	Hayward	CA		
Khosla; Chaitan	Palo Alto	CA		

US-CL-CURRENT: 435/252.3

ABSTRACT:

Recombinant Myxococcus host cell containing recombinant expression vectors containing epothilone polyketide synthase genes can produce epothilones C and D.

6 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 11. Document ID: US 6303342 B1

L4: Entry 11 of 11

File: USPT

Oct 16, 2001

US-PAT-NO: 6303342

DOCUMENT-IDENTIFIER: US 6303342 B1

TITLE: Recombinant methods and materials for producing epothilones C and D

DATE-ISSUED: October 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Julien; Bryan	Oakland	CA		
Katz; Leonard	Hayward	CA		
Khosla; Chaitan	Palo Alto	CA		
Tang; Li	Foster City	CA		

US-CL-CURRENT: 435/76

ABSTRACT:

Recombinant nucleic acids that encode all or a portion of the epothilone polyketide synthase (PKS) are used to express recombinant PKS genes in host cells for the production of epothilones, epothilone derivatives, and polyketides that are useful as cancer chemotherapeutics, fungicides, and immunosuppressants.

29 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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